	Application No.	Applicant(s)
	09/810,601	DONOVAN, STEPHEN
Notice of Allowability	Examiner	Art Unit
	Chih-Min Kam	1653
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the state of the s	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>3/9/04</u> .		
2. 🔀 The allowed claim(s) is/are 22 and 26-30.		
3. The drawings filed on are accepted by the Exami	ner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents hat</li> <li>2. Certified copies of the priority documents hat</li> <li>3. Copies of the certified copies of the priority</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Applicati	on No
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sul INFORMAL PATENT APPLICATION (PTO-152) which g		
6. X CORRECTED DRAWINGS ( as "replacement sheets") n	nust be submitted.	
(a) 🛛 including changes required by the Notice of Draftsp	erson's Patent Drawing Revie	w ( PTO-948) attached
1) ☐ hereto or 2) ⊠ to Paper No./Mail Date <u>4/2</u> 3	<u>1/03</u> .	
(b) including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i	R 1.84(c)) should be written on t n the header according to 37 C	he drawings in the front (not the back) of FR 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the department of the department of</li></ol>	posit of BIOLOGICAL MAT	ERIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		nformal Patent Application (PTO-152) Jummary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/Si	Paper No.	/Mail Date <u>6/07/04</u> . Amendment/Comment
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposi	t 8. ☐ Examiner's	Statement of Reasons for Allowance
of Biological Material	9.	
		CHRISTOPHER S. F. LOW SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1800

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An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen Donovan on June 7, 2003.

## **Examiner's Amendments to the Claims:**

Claims 22 and 26-30 have been amended as follows:

- 22. (Currently amended) A method for treating a gonadotrophin related illness in a mammal, said method comprises the steps of:
- (I) administering to the mammal a therapeutically effective amount of an agent, the agent comprises:
- (a) [a] <u>an</u> LH<sub>N</sub> which comprises (i) a light chain component, [comprising a light chain] <u>an</u> L-chain[,] of a botulinum toxin, a butyricum toxin, or a tatani toxin and (ii) a translocation component, [comprising a heavy chain] <u>an</u> H<sub>N</sub> of a botulinum toxin, a butyricum toxin, or a tatani toxin; and
- (b) a targeting component which comprises a gonadotrophin-releasing hormone (GnRH) or GnRH analog, wherein the LH<sub>N</sub> is covalently coupled to the GnRH or GnRH analog, and wherein the targeting component selectively binds to a GnRH receptor; and
- (II) alleviating the gonadotrophin related illness by lowering the level of a gonadotrophin secretion, wherein the gonadotrophin related illness is selected from the group consisting of breast cancer, prostate cancer, pancreatic cancer, and endometrial cancer,

thereby treating a gonadotrophin related illness by lowering the level of a gonadotrophin secretion].

26. (Currently amended) The [agent] <u>method</u> according to claim 22 wherein the light chain component <u>of the agent</u> decreases the release of a hormone from a cell.

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27. (Currently amended) The [agent] method according to claim 22 wherein the light chain component of the agent [comprises] is the light chain of [a] botulinum toxin type A, B, C<sub>1</sub>, D, E, F, or G.

- 28. (Currently amended) The [agent] <u>method</u> according to claim 22 wherein the light chain component <u>of the agent</u> [comprises] <u>is the</u> light chain of [a] botulinum toxin type A.
- 29. (Currently amended) The [agent]  $\underline{\text{method}}$  according to claim 22 wherein the translocation component  $\underline{\text{of the agent}}$  [comprises a heavy chain]  $\underline{\text{is the H}_N}$  of [a] botulinum toxin type A, B, C<sub>1</sub>, D, E, F, or G.
- 30. (Currently amended) The [agent]  $\underline{\text{method}}$  according to claim 22 wherein the translocation component of the agent [comprises a heavy chain] is the  $\underline{H}_N$  of [a] botulinum toxin type A.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571) 272-0951. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 308-4227 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Chih-Min Kam, Ph. D. Cark
Patent Examiner

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June 7, 2004

CHRISTOPHER S. F. LOW
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1800